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Substitute for form 1449A/PTO

INFORMATION DISCLOSURE STATEMENT BY APPLICANT

Complete if Known **Application Number** 10/828,542 Filing Date April 19, 2004 First Named Inventor W. McKinzie Art Unit 2817 **Examiner Name** Seungsook Ham Attorney Docket Number 42372-0004B

(Use as many sheets as necessary)

Sheet

			U. S. PATENT	DOCUMENTS	
Examiner Initials*	Cite No. ¹	Document Number Number-Kind Code ^{2 (il trown)}	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
m		us- 6,366,443	04/02/2002	Devoe et al	
W		us-6,587,327	07/01/2003	Devoe et al	
m	1	us- 6,751,082	06/15/2004	Devoe et al .	
an		us-6,753,218	06/22/2004	Devoe et al	
an		us- 6,816,356	11/09/2004	Devoe et al	
m		us-6,970,341	11/29/2005	Devoe et al	
M		us-5,450,046	09/12/1995	Kosugi et al	· · · · · · · · · · · · · · · · · · ·
M		us- 5,912,597	06/15/1999	Inagawa et al	
om		us-2005/0205292	09/22/2005	Rogers et al	. 1.
an		us-2005/0224912	10/13/2005	Rogers et al	
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FOREIGN PATENT DOCUMENTS						
Examiner Initials*	Cite No.1	Foreign Patent Document Country Code ³ "Number ⁴ "Kind Code ⁵ (if known)	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	
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*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant. 1 Applicant's unique citation designation number (optional). 2 See Kinds Codes of USPTO Patent Documents at www.uspto.gov or MPEP 901.04. 3 Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). 4 For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. 5 Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST. 16 if possible. 6 Applicant is to place a check mark here if English language Translation is attached.

Translation is attached.

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INFORMATION DISCLOSURE STATEMENT BY APPLICANT

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Complete if Known				
Application Number 10/828,542				
Filing Date	04/19/2004			
First Named Inventor	W. McKinzie			
Art Unit	2918			
Examiner Name	Seungsook Ham			
Attorney Docket Number 42372-0004B				

				DOCUMENTS	
Examiner Initials*	Cite No. ¹	Number-Kind Code ² (* known)	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
an	Α	^{US-} 6,538,538	03-25-2003	Hreish et al.	
on	В	^{US-} 6,075,485	06-13-2000	Lilly et al.	
m	С	^{US-} 6,061,025	05-09-2000	Jackson et al.	
31	D	^{US-} 6,262,495	07-17-2001	Yablonovitch et al.	
m	·Ε	^{US-} 6,411,261	06-25-2002	Lilly	
m	F	us- 6,476,771 、	11-05-2002	McKinzie, III	
60	G	^{US-} 6,501,427	12-31-2002	Lilly et al.	
in	Η	^{US-} 6,512,494	01-28-2003	Diaz et al.	
m	1	^{US-} 6,525,695	02-25-2003	McKinzie, III	
M	J	^{US-} 6,542,342	04-01-2003	Hayashi et al.	
an	К	^{US-} 6,567,048	05-20-2003	McKinzie et al.	,
W	L	^{US-} 6,590,531	07-08-2003	McKinzie, III et al.	
m	М	^{US-} 6,670,932	12-30-2003	Diaz et al.	
W	N	^{US-} 6,646,605	11-11-2003	McKinzie, III et al.	
M	0	us- 6,690,327	02-10-2004	McKinzie, III et al.	
mi	P	^{US-} 6,768,476	07-27-2004	Lilly et al.	
m	α	^{US-} 6,774,866	08-10-2004	McKinzie, III et al.	
anh	R	^{US-} 6,774,867	08-10-2004	McKinzie, III et al.	
M	S	^{US-} 6,831,602	12-14-2004	McKinzie, III et al.	

	FOREIGN PATENT DOCUMENTS									
Examiner Initials*	Cite No. ¹	Foreign Patent Document	Publication Date	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages	Γ				
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Substitute for form 1449/PTO	Complete if Known		
	Application Number	10/796,398	
INFORMATION DISCLOSURE	Filing Date	03/08/2004	
STATEMENT BY APPLICANT (Use as many sheets as necessary)	First Named Inventor	W. McKinzie	
	Art Unit	2817	
	Examiner Name	Seungsook Ham	

Seungsook Ham Attorney Docket Number 42372-0004 Sheet

Examiner	Cite	Dogument Number	Publication Date	DOCUMENTS		
Initials*	No.	Document Number	MM-DD-YYYY.	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant	
		Number-Kind Code ^{2 (# known)}		Typicalli of olda decilient	Figures Appear	
an	Т	^{US-} 6,867,746	03-15-2005	Mendolia et al.		
M	U	^{US-} 6,888,316	05-03-2005	Seo et al.		
m	٧	^{US-} 6,897,831	05-24-2005	McKinzie, III et al.		
m	W	^{US-} 6,906,674	06-14-2005	McKinzie, III et al.		
m	X	^{US-} 6,917,343	07-12-2005	Sanchez et al.		
m	Υ	^{US-} 6,933,895	08-23-2005	Mendolia et al.		
AV	Z	^{US-} 6,937,192	08-30-2005	Mendolia et al.		
m	AA	^{US-} 2002/0183013 A1	12-05-2002	Auckland et al.		
m	AB	^{US-} 2003/0025637 A1	02-06-2003	Mendolia et al.		
m	AC	^{US-} 2003/0043071 A1	03-06-2003	Lilly et al.		
an	ΑD	^{US-} 2003/0071763 A1	04-17-2003	McKinzie, III et al.		
BÙ	ΑE	^{US-} 2003/0137457 A1	07-24-2003	McKinzie, III et al.		
611	AF	^{US-} 2005/0029632 A1	02-10-2005	McKinzie, III et al.	•	
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	FOREIGN PATENT DOCUMENTS									
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	Substitute for form 1449/PTO			Complete if Known		
				Application Number	10/828,542	
INF	ORMATION	I DIS	SCLOSURE	Filing Date	04/19/2004	
STATEMENT BY APPLICANT			PPLICANT	First Named Inventor	W. McKinzie	
	(lisa as manu sh	. sa 2100	nocesson/	Art Unit	2918	
(Use as many sheets as necessary)				Examiner Name	Seungsook Ham	
Sheet	3	of	4	Attorney Docket Number	42372-0004B	

		NON PATENT LITERATURE DOCUMENTS	
Examiner Initials*	Cite No.1	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T²
M	AG	International Search Report dated April 19, 2005, for International Application No. PCT/US05/13235.	
âN	АН	T. Lee, "A Vertical Leap for Microchips", Scientific American, January 2002, pp. 52-59.	
an	AI	International Search Report dated October 21, 2005, for International Application No. PCT/US05/06784.	
M	AJ	Abhari et al., "Suppression of Parallel-Plate Noise in High Speed Circuits Using a Metallic Electromagnetic Band-Gap Structure", 2002 IEEE MTT-S Intl. Microwave Symp. Digest,	
		pp. 493-496, Seattle, WA, June 2-7, 2002.	
an	AK	Daniel R. Sievenpiper, "High-Impedance Electromagnetic Surfaces," dissertation, UCLA Electrical Engineering Dept., filed January 1999.	
m	AL	Abhari et al., "Metallo-Dielectric Electromagnetic Bandgap Structures for Suppression and Isolation of the Parallel-Plate Noise in High Speed Circuits,"	
		IEEE Trans. MTT, Vol. 51, No. 6, June 2003.	
m	AM	Kamgaing et al., "High-Impedance Electromagnetic Surfaces for Parallel-Plate Mode Suppression in High Speed Digital Systems", IEEE 11th Topical Meeting on Electrical	
		Performance of Electronic Packaging (EPEP), Monterey, CA, Oct. 21-23, 2002.	

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	Application Number	10/828 542	

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				Application Number	10/828,542	
INF	ORMAT	ON DIS	CLOSURE	Filing Date	04/19/2004	
STATEMENT BY APPLICANT			PPLICANT	First Named Inventor	W. McKinzie	
· (Use as many sheets as necessary)				Art Unit	2918	
,				Examiner Name	Seungsook Ham	
Sheet	4	of	4	Attorney Docket Number	42372-0004B	

		NON PATENT LITERATURE DOCUMENTS		
Examiner Initials*	Cite No. Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-iss number(s), publisher, city and/or country where published.			
m	AN	Kamgaing et al., "A Novel Power Plane with Integrated Simultaineous Switching Noise Mitigation Capability Using High Impedance Surface," IEEE Microwave and Wireless		
		Components Letter, Vol. 13, No. 1, January 2003.		
an	AO	Kamgaing et al., "Inductance-Enhanced High-Impedance Surfaces for Broadband Simultaneous Switching Noise Mitigation in Power Planes,"		
		2003 IEEE MTT-S Intl. Microwave Symp. Digest, pp. 2165-2168, Philadelphia, PA, June 8-13, 2003.		
m	АР	Kamgaing et al., "Development and Application fo Physics-based Compact Models for High-Impedance Electromagnetic Surfaces Integrated in a Power Plane Configuration",		
,		IEEE Intl. Antennas and Propagation Symp., Vol. 4, pp. 442-445, Columbus, OH, June 22-27, 2003.		
		·		

Examiner	<u> </u>	Date	- 1.2101
Signature		Considered	2/13/00

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